Color Coding Key

All Units are cfsm unless ratios

Basin Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann Avg cfsm (except %)	SY-mgd w/o reservoir credit	SY with reservoir credit
Blackstone - State Line															
MQ50=MONTHLY MEDIANS FROM SYE -- EEA DATA	1.80	2.01	2.74	2.57	1.73	0.85	0.37	0.31	0.32	0.75	1.24	1.70	*1.37*		
MQ90=MONTHLY DROUGHT FLOWS FROM SYE - EEA DATA	0.73	0.85	1.37	1.21	0.81	0.33	0.20	0.16	0.17	0.28	0.41	0.66	*0.60*		
MQ95=MORE SEVERE DROUGHT, FROM MONTHLY SYE DATA	0.60	0.66	1.12	0.98	0.64	0.29	0.17	0.14	0.14	0.22	0.29	0.46	*0.48*		
MQ98=MORE SEVERE DROUGHT, FROM MONTHLY SYE DATA	0.37	0.54	0.95	0.73	0.50	0.25	0.15	0.08	0.10	0.15	0.23	0.28	*0.36*		
MQ99=EXTREME DROUGHT, FROM MONTHLY SYE DATA	0.33	0.46	0.82	0.66	0.45	0.23	0.14	0.08	0.09	0.10	0.21	0.24	*0.32*		
MQ99.9+=MOST SEVERE DROUGHT (WORST DAY/MONTH)	0.31	0.32	0.45	0.60	0.38	0.16	0.09	0.07	0.07	0.08	0.12	0.22	*0.24*		
25% of MQ50	0.45	0.50	0.69	0.64	0.43	0.21	0.09	0.08	0.08	0.19	0.31	0.43	*0.34*		
Ratio 25% MQ50 / MQ90	61%	59%	50%	53%	53%	64%	45%	50%	48%	67%	76%	64%	57%		
55% of MQ90 (maximum allocatable)	0.40	0.47	0.75	0.66	0.45	0.18	0.11	0.09	0.09	0.15	0.22	0.36	*0.33*	76.03	EEA Safe Yield
EEA safe yield: annual average	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	*0.33*		
10%/10%/25%/15% of MQ50	0.18			0.26				0.08		0.11			*0.16*	36.25	Yield based on streamflow criteria thresholds and median flows
10%/10%/25%/15% of MQ90	0.07			0.12				0.04		0.04			*0.07*	15.89	Yield based on streamflow criteria thresholds and drought
25% depletion of AugQ50													*0.08*	17.93	Yield based on 25% depletion of August median
USGS monthly demand % of total annual demand	89%	82%	90%	95%	112%	123%	122%	116%	105%	94%	85%	88%	100%		
Adjusted monthly demand * EEA safe yield (cfsm)	0.29	0.27	0.29	0.31	0.37	0.40	0.40	0.38	0.34	0.31	0.28	0.29	0.33		
% flows lower than EEA safe yield (constant value)	1%	<1%	0%	0%	0%	10%	44%	54%	52%	18%	6%	2%			
% flows lower than EEA safe yield using adjusted demand	0%	0%	0%	0%	0%	18%	56%	63%	54%	14%	5%	2%			

COLOR CODING EXPLANATION

BASIS OF EEA SAFE YIELD DETERMINATION = 55% OF ANNUALIZED MONTHLY Q90
BASIS OF EEA SAFE YIELD DETERMINATION = SHOWN ON MONTHLY BASIS
OTHER FIGURES USED IN EEA SAFE YIELD METHODOLOGY
  MONTHLY MEDIANS
  MONTHLY Q90 (DROUGHT FLOWS)
  25% OF MONTHLY MEDIANS
  25% OF MONTHLY MEDIANS = WHAT % OF MONTHLY Q90 DROUGHT FLOWS
SHOWS MONTHS WHEN EEA SAFE YIELD EXCEEDS EEA MAXIMUM ALLOCATABLE VOLUME
SHOWS MONTHS WHEN EEA SAFE YIELD EXCEEDS RIVER FLOW
25% DEPLETION OF AUGUST MEDIAN
APPLIED STREAMFLOW CRITERIA THRESHOLDS TO MONTHLY STATISTICS
  10% JANUARY; 10% APRIL; 25% AUGUST; 15% OCTOBER OF MONTHLY Q50 (MEDIANS)
  10% JANUARY; 10% APRIL; 25% AUGUST; 15% OCTOBER OF MONTHLY Q90 (DROUGHT)
USGS monthly demand as % of total annual demand
Multiplied USGS monthly demand percentages by EEA safe yield
PERCENT OF TIME THAT RIVER WOULD BE DRY -- BASED ON CONSTANT SAFE YIELD WITHDRAWALS
PERCENT OF TIME THAT RIVER WOULD BE DRY -- BASED ON SAFE YIELD*USGS MONTHLY DEMAND PERCENTAGES

CURRENT ALLOCATION EXCEEDS THIS FIGURE
REGISTERED VOLUME EXCEEDS THIS FIGURE
Current Allocation/Reg. Vol. are below this figure   Note in some cases (eg Parker) there is still a problem due to geographic scale

I did not adjust for number of days in month; this is trivial compared with other issues

Color Coding Key